

TABLE M.5.6.1.2–2.—Potential Source Terms for Radiological Accident Scenarios

Accident	Frequency (per year)	Source Term or Hazard (No Action Alternative)	Source Term or Hazard (Proposed Action)
Earthquake during No Action Alternative operations	2×10^{-8}	500 Ci tritium plus activated gases and particulates	500 Ci tritium plus activated gases and particulates
Earthquake during depleted uranium experiment	2×10^{-9}	0.005 g depleted uranium plus 500 Ci tritium plus activated gases and particulates	0.1 g depleted uranium plus 500 Ci tritium plus fission products plus activated gases and particulates
Earthquake during highly enriched uranium experiment	2×10^{-9}	Not applicable	0.1 g highly enriched uranium plus 500 Ci tritium plus fission products plus activated gases and particulates
Earthquake during thorium experiment	2×10^{-9}	Not applicable	0.45 g thorium-232 plus 500 Ci tritium plus fission products plus activated gases and particulates
Earthquake during tracer experiment	2×10^{-9}	Not applicable	0.031 Ci iodine-124 0.032 Ci iodine-125 0.075 Ci iodine-126 500 Ci tritium plus activated gases and particulates
Earthquake during plutonium without yield experiment	2×10^{-9}	Not applicable	0.003 g weapons grade plutonium plus 500 Ci tritium plus activated gases and particulates
Earthquake during plutonium with yield experiment	2×10^{-9}	Not applicable	0.001 g weapons grade plutonium plus 500 Ci tritium plus fission products, plus activation gases and particulates

Source: LLNL 2003d.
g = grams; Ci = curies.